

# Agenda and General Information

IEEE P802.3bp  
1000BASE-T1 PHY  
Task Force

Steven B. Carlson

High Speed Design, Inc.

February 2016 – Santa Clara, CA, USA

# Agenda

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- Appoint Recording Secretary
- Welcome and Introductions
- Approve Agenda
- Approve previous Minutes
- Goals for this meeting
- Reflector and Web
- Ground Rules
- IEEE
  - Structure
  - Bylaws and Rules
  - Call for Patents
  - IEEE Standards Process
  - Task Force Operation
- Comment resolution to D3.1
- Future Meetings

# Task Force Decorum

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- Photography or recording by permission only (December 2014 IEEE-SA Standards Board Ops Manual 5.3.3.2)
- Cell phone ringers off
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (December 2013 IEEE-SA Standards Board Ops Manual 5.3.3.3)
- Wear your badges at all times in meeting areas
  - Help the hotel security staff improve the general security of the meeting rooms
  - **PCs HAVE BEEN STOLEN** at previous meetings
  - **DO NOT** assume that meeting areas are secure
- Please observe proper decorum in meetings

# Goals for the meeting

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- Results of 1<sup>st</sup> recirculation Sponsor Ballot
- Comment resolution D3.1
- Create D3.2 for 2<sup>nd</sup> sponsor ballot recirculation
- **Build consensus**

# Task Force Officers

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- **Steve Carlson**  
Task Force Chair
- **Marek Hajduczenia**  
Task Force Editor-in-Chief
- **Curtis Donahue**  
Task Force PICS Editor
- See <http://www.ieee802.org/3/contacts.html#RTPGE> for contact info

# Reflector and Web

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- To subscribe to the RTPGE reflector, send an email to:  
[ListServ@ieee.org](mailto:ListServ@ieee.org)

with the following in the body of the message (do not include “<>”):

*subscribe* stds-802-3-RTPGE <yourfirstname> <yourlastname>

- Send RTPGE reflector messages to:  
**stds-802-3-RTPGE** [@listserv.ieee.org](mailto:stds-802-3-RTPGE@listserv.ieee.org)
- Task Force web page URL:  
[www.ieee802.org/3/bp/index.html](http://www.ieee802.org/3/bp/index.html)

# IEEE P802.3bp 1000BASE-T1 PHY Task Force Project Documents

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## – Home page:

<http://ieee802.org/3/bp/index.html>

- PAR:

[http://www.ieee802.org/3/bp/P802.3bp\\_12\\_Jun\\_14.pdf](http://www.ieee802.org/3/bp/P802.3bp_12_Jun_14.pdf)

- 5C: <http://www.ieee802.org/3/bp/5Criteria.pdf>

- Objectives:

[http://www.ieee802.org/3/bp/Updated\\_Objectives\\_0714.pdf](http://www.ieee802.org/3/bp/Updated_Objectives_0714.pdf)

# Ground Rules

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- Based upon IEEE 802.3 Rules
  - Foundation based upon Robert's Rules of Order
  - Anyone in the room may speak
  - Anyone in the room may vote
- **RESPECT**... give it, get it
- NO product pitches
- NO corporate pitches
- NO prices!!!
  - This includes costs, ASPs, etc. no matter what the currency
- NO restrictive notices



# Important Bylaws and Rules

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- **IEEE-SA Operations Manual**  
<http://standards.ieee.org/sa/sa-om.pdf>
- **IEEE-SA Standards Board Bylaws**  
<http://standards.ieee.org/guides/bylaws/sb-bylaws.pdf>
- **IEEE-SA Standards Board Operations Manual**  
<http://standards.ieee.org/guides/opman/sb-om.pdf>
- **IEEE 802 LAN/MAN Standards Committee (LMSC) Policies and Procedures**  
<http://standards.ieee.org/about/sasb/audcom/pnp/LMSC.pdf>
- **IEEE 802 LAN/MAN Standards Committee (LMSC) Operations Manual**  
[http://www.ieee802.org/PNP/2010-07/IEEE\\_802\\_LMSC\\_OM\\_approved\\_100716.pdf](http://www.ieee802.org/PNP/2010-07/IEEE_802_LMSC_OM_approved_100716.pdf)
- **IEEE 802 LAN/MAN Standards Committee (LMSC) Working Group (WG) Policies and Procedures**  
[http://www.ieee802.org/PNP/2010-07/IEEE\\_802\\_LMSC\\_WG\\_PandP\\_approved\\_100716.pdf](http://www.ieee802.org/PNP/2010-07/IEEE_802_LMSC_WG_PandP_approved_100716.pdf)
- **IEEE 802.3 Working Group Operating Rules**  
[http://ieee802.org/3/rules/P802\\_3\\_rules.pdf](http://ieee802.org/3/rules/P802_3_rules.pdf)

# Instructions for the WG Chair

The IEEE-SA strongly recommends that at each WG meeting the chair or a designee:

- **Show slides #1 through #4 of this presentation**
- **Advise the WG attendees that:**
  - The IEEE's patent policy is described in Clause 6 of the *IEEE-SA Standards Board Bylaws*;
  - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
  - There may be Essential Patent Claims of which the IEEE is not aware. Additionally, neither the IEEE, the WG, nor the WG chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
- **Instruct the WG Secretary to record in the minutes of the relevant WG meeting:**
  - That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
  - That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard
  - Any responses that were given, specifically the patent claim(s)/patent application claim(s) and/or the holder of the patent claim(s)/patent application claim(s) that were identified (if any) and by whom.
- The WG Chair shall ensure that a request is made to any identified holders of potential essential patent claim(s) to complete and submit a Letter of Assurance.
- It is recommended that the WG chair review the guidance in *IEEE-SA Standards Board Operations Manual* 6.3.5 and in FAQs 14 and 15 on inclusion of potential Essential Patent Claims by incorporation or by reference.

Note: **WG** includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE-SA Standards Board.



# Participants, Patents, and Duty to Inform

All participants in this meeting have certain obligations under the IEEE-SA Patent Policy.

- Participants [Note: Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2]:
  - “Shall inform the IEEE (or cause the IEEE to be informed)” of the identity of each “holder of any potential Essential Patent Claims of which they are personally aware” if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
  - “Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of potential Essential Patent Claims” (that is, third parties that are not affiliated with the participant, with the participant’s employer, or with anyone else that the participant is from or otherwise represents)
- The above does not apply if the patent claim is already the subject of an Accepted Letter of Assurance that applies to the proposed standard(s) under consideration by this group
- Early identification of holders of potential Essential Patent Claims is strongly encouraged
- No duty to perform a patent search

# Patent Related Links

All participants should be familiar with their obligations under the IEEE-SA Policies & Procedures for standards development.

Patent Policy is stated in these sources:

IEEE-SA Standards Boards Bylaws

*<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>*

IEEE-SA Standards Board Operations Manual

*<http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>*

Material about the patent policy is available at

*<http://standards.ieee.org/about/sasb/patcom/materials.html>*

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at [patcom@ieee.org](mailto:patcom@ieee.org) or visit <http://standards.ieee.org/about/sasb/patcom/index.html>

This slide set is available at  
<https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt>

# Call for Potentially Essential Patents

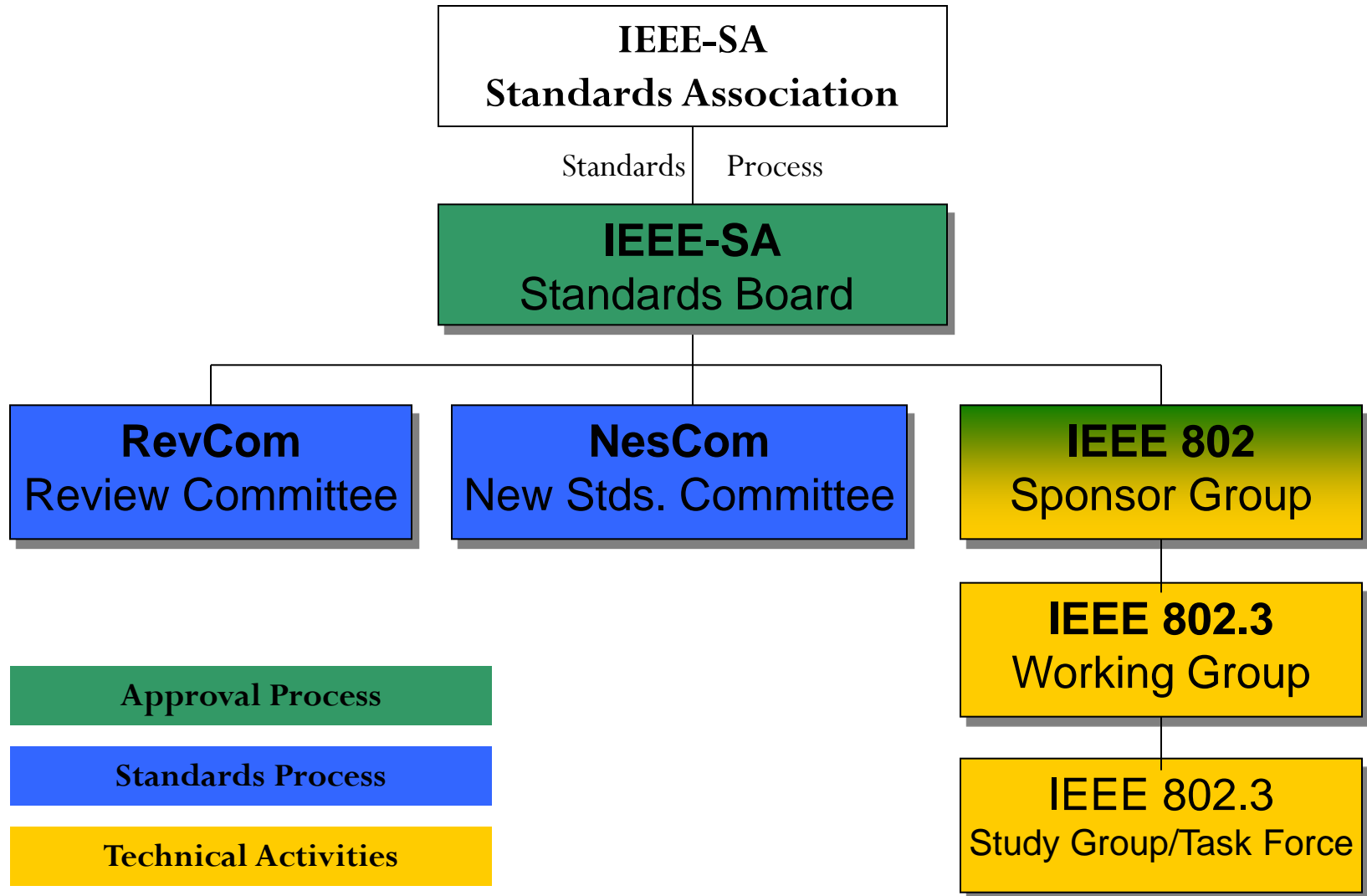
- If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance:
  - Either speak up now or
  - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible or
  - Cause an LOA to be submitted

# Other Guidelines for IEEE WG Meetings

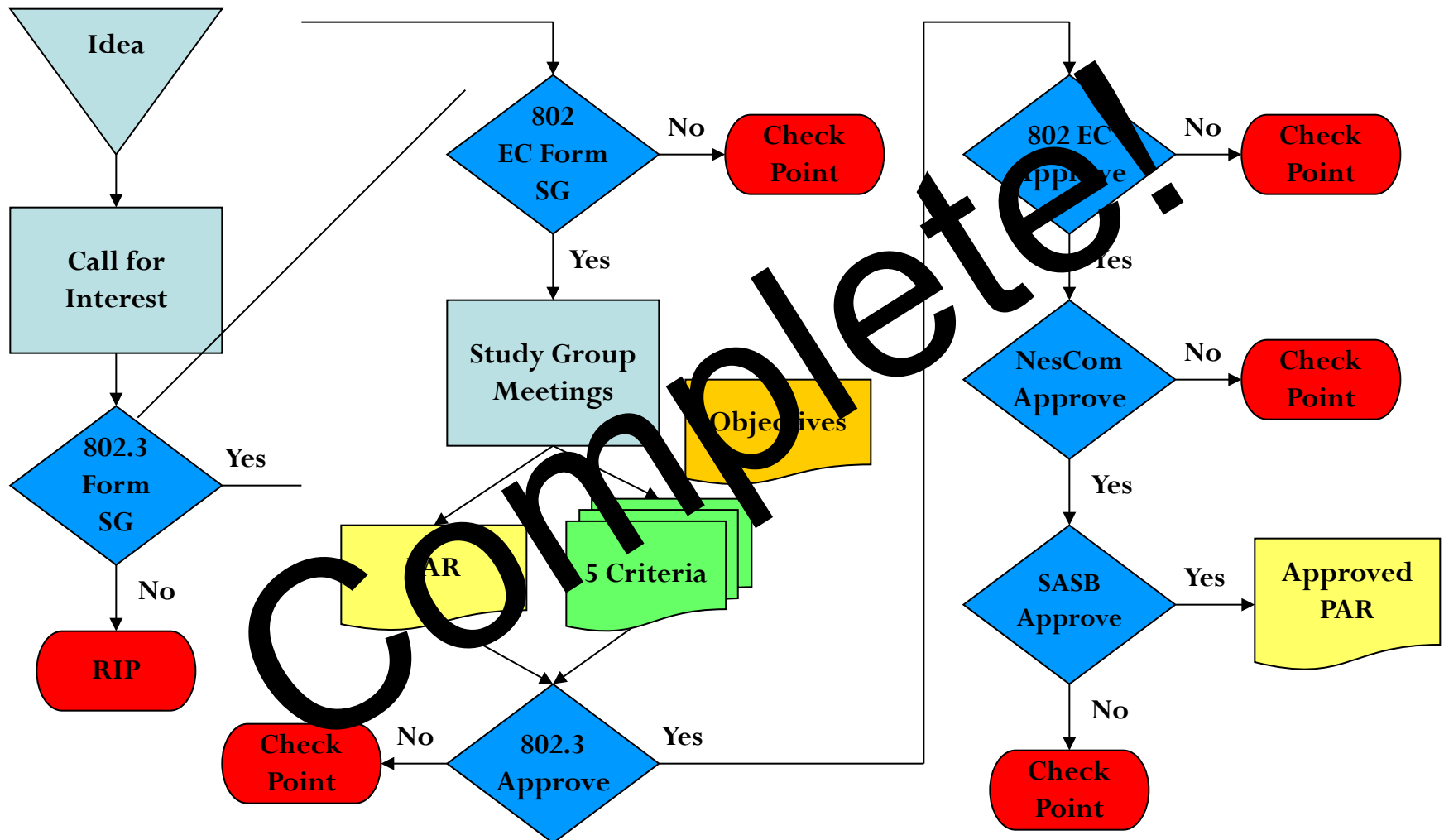
- **All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.**
  - **Don't discuss the interpretation, validity, or essentiality of patents/patent claims.**
  - **Don't discuss specific license rates, terms, or conditions.**
    - Relative costs, including licensing costs of essential patent claims, of different technical approaches may be discussed in standards development meetings.
      - Technical considerations remain primary focus
  - **Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.**
  - **Don't discuss the status or substance of ongoing or threatened litigation.**
  - **Don't be silent if inappropriate topics are discussed ... do formally object.**

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See *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and “Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy” for more details.

# IEEE Structure



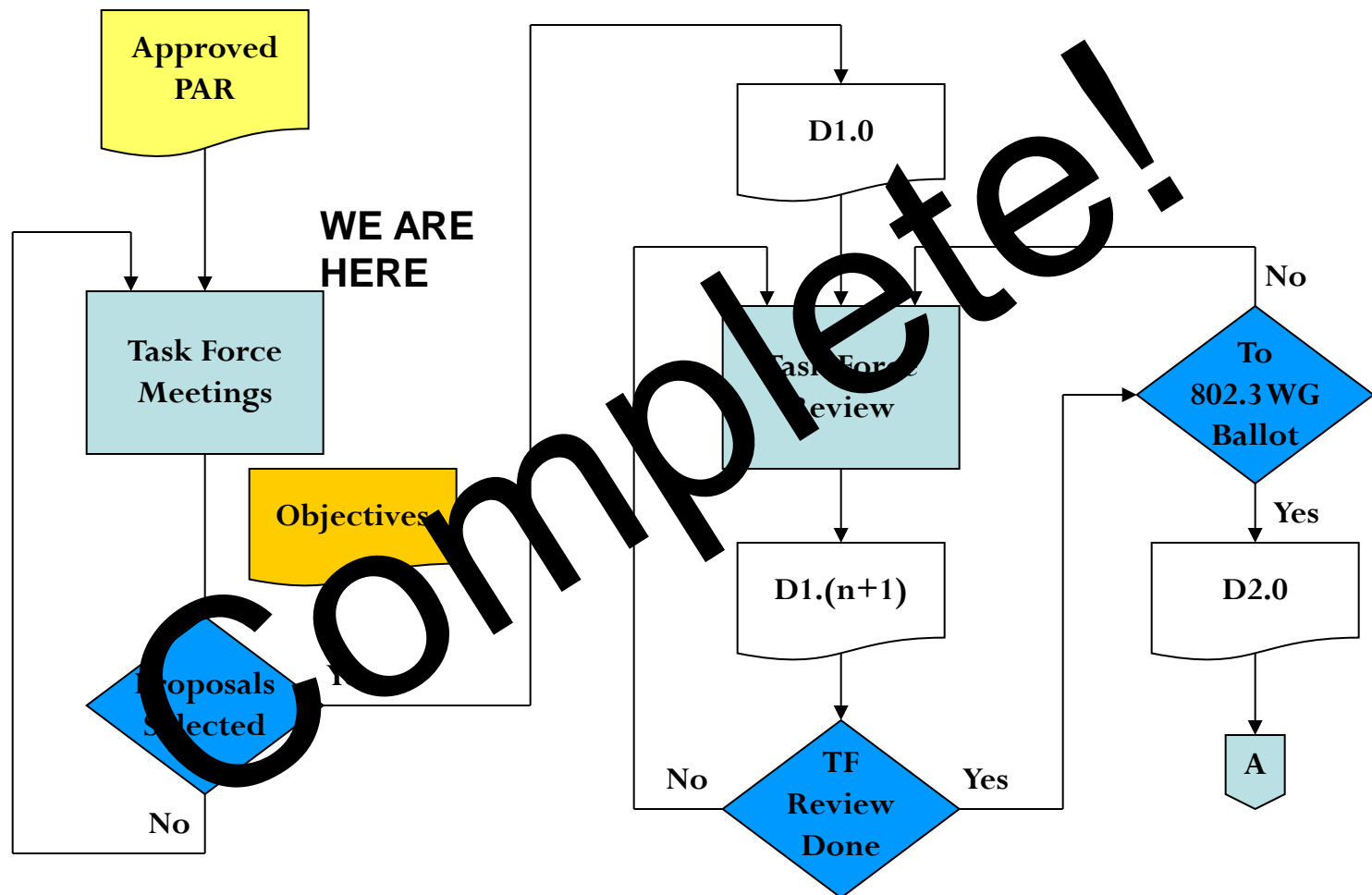
# Overview of IEEE 802.3 Standards Process (1/5)- Study Group Phase



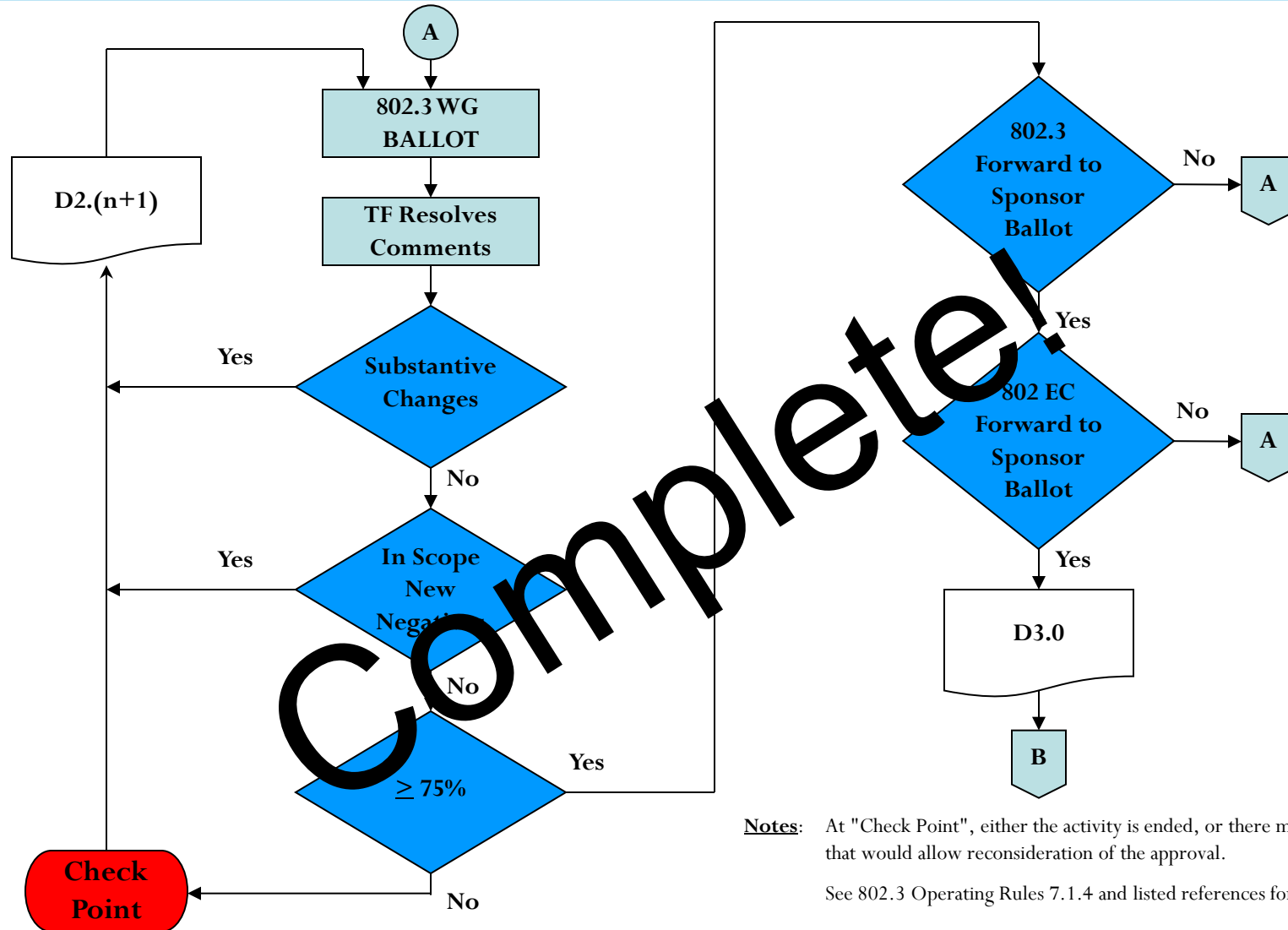
Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.



# Overview of IEEE 802.3 Standards Process (2/5) – Task Force Comment Phase



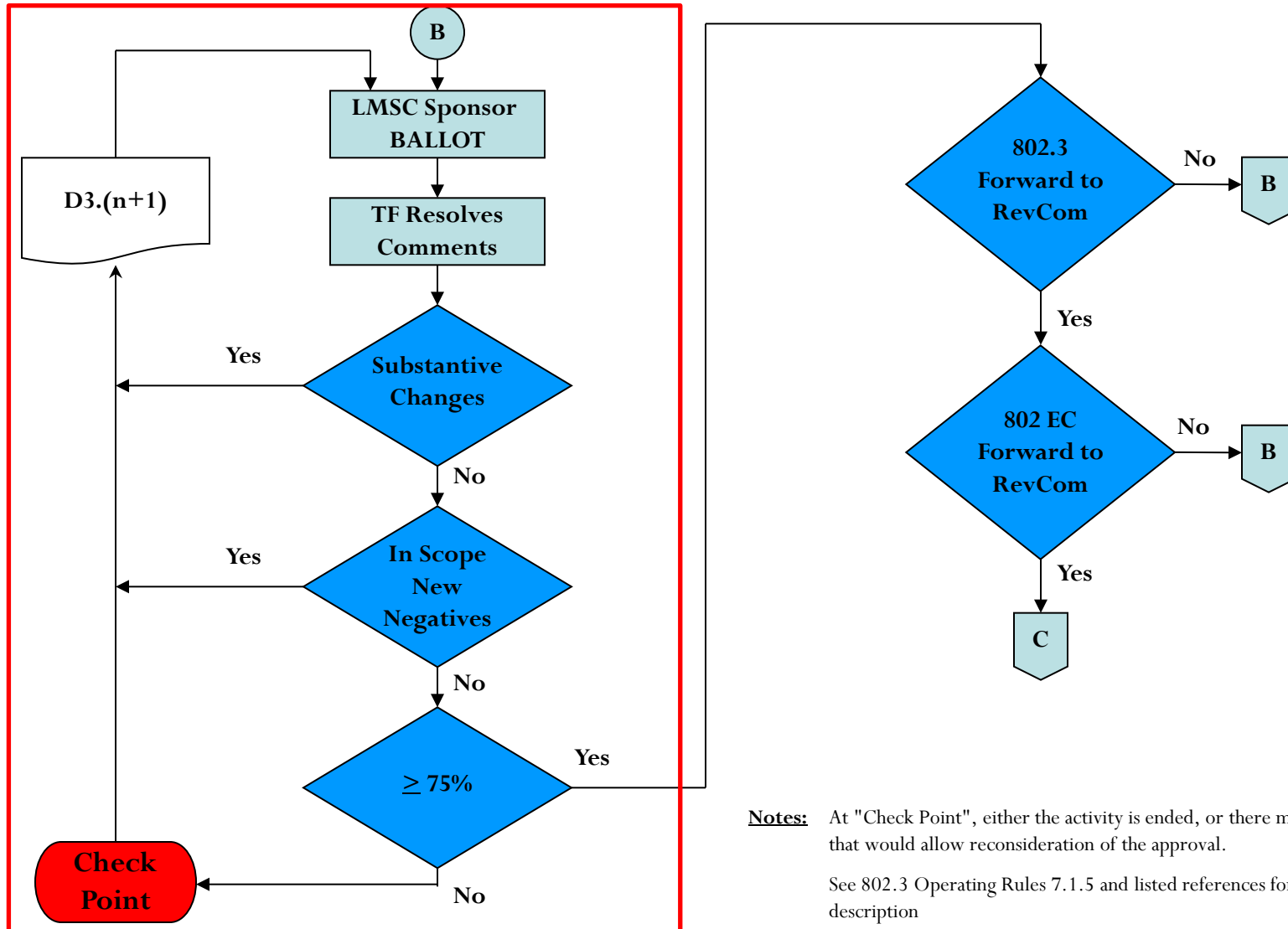
# Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



**Notes:** At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

See 802.3 Operating Rules 7.1.4 and listed references for complete description

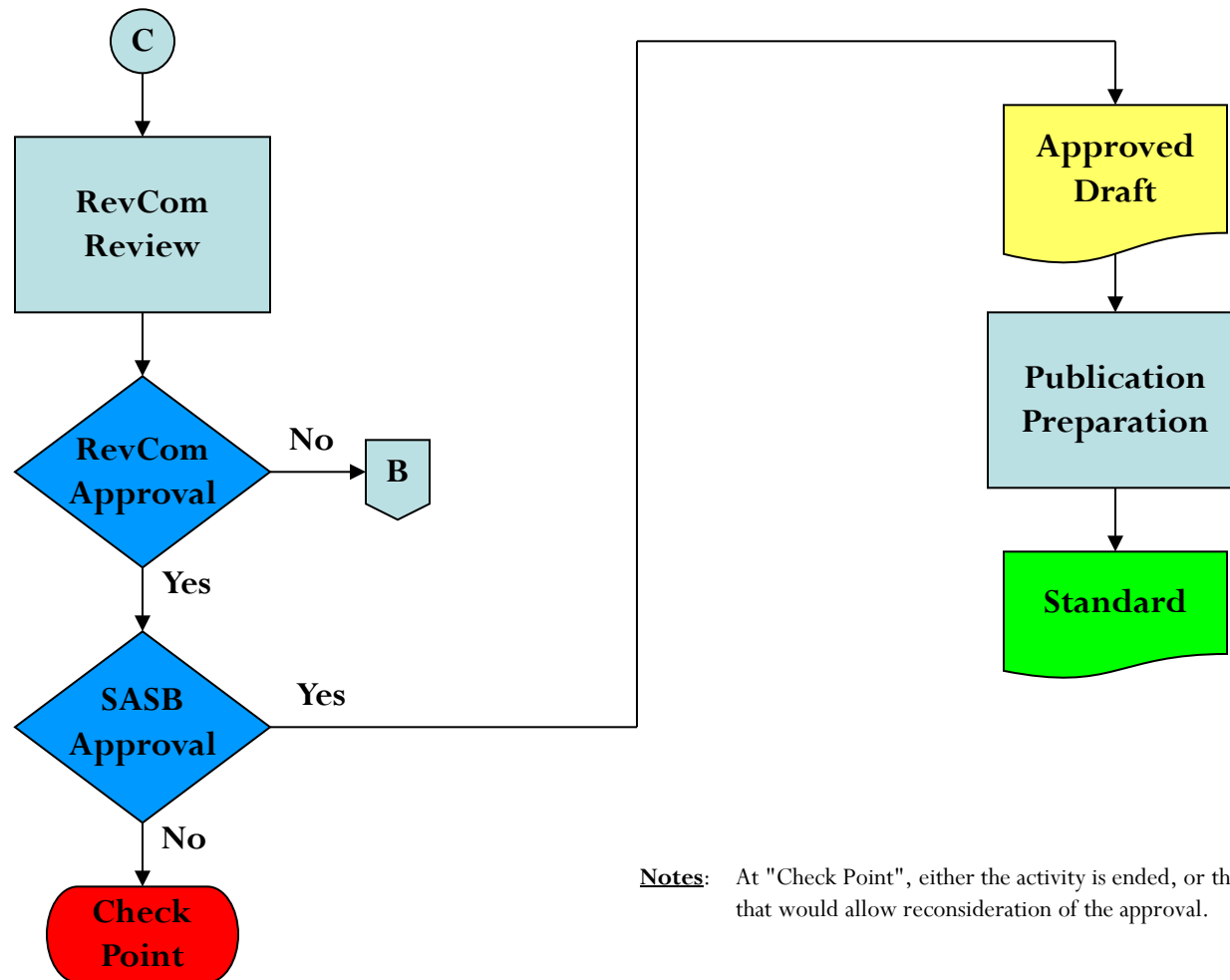
# Overview of IEEE 802.3 Standards Process (4/5)- Sponsor Ballot Phase



**Notes:** At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

See 802.3 Operating Rules 7.1.5 and listed references for complete description

# Overview of IEEE 802.3 Standards Process (5/5) – Final Approvals / Standard Release



**Notes:** At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

# Private Area

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- What is posted to the private area?
  - Drafts of the standard
  - Any drafts from other SDOs that have been supplied to us
  - Login and password info is never posted on slides or in emails
  - Login and password should not be given out to anyone

# Task Force Operation

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- The Task Force writes the standard
- P802.3bp will be a two clauses to the 802.3 Standard, 97 and 98
- P802.3bp will modify existing clauses 1, 22, 30, 32, 33, 45 and 78
- Other clauses may also be modified

# D3.1 Ballot Results

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130	Voters
104	Approve
7	Disapprove
5	Abstain
116	Ballots returned

**Response rate: 89.23%  $\geq$  75%**

**Approval rate: 93.69%  $\geq$  75%**

**Abstain rate: 4.31%  $<$  30%**

# D3.1 Ballot Results

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9 commenters total

36 Editorial

4 Editorial required

2 General

19 Technical

24 Technical required

85 comments total

No late comments



# D3.1 Ballot Results-Updated

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130	Voters
105	Approve
6	Disapprove
5	Abstain
116	Ballots returned

**Response rate: 89.23%  $\geq$  75%**

**Approval rate: 94.59%  $\geq$  75%**

**Abstain rate: 4.31%  $<$  30%**

# D3.1 Ballot Results-Updated

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9 commenters total

34 Editorial

4 Editorial required

1 General

19 Technical

17 Technical required

10 withdrawn (2 E, 1G, 7 TR)

75 comments total

No late comments

# Project Order

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- David Law, the 802.3 WG Chair, has been looking in to the expected order of approval for the drafts that are currently in sponsor ballot. Based on: (a) IEEE P802.3by entering sponsor ballot in November 2015; (b) IEEE P802.3bq relying on the 25 Gb/s MAC and related interfaces such as the 25GMII being defined in IEEE P802.3by; (c) IEEE P802.3bq and IEEE P802.3bp entering sponsor ballot in December 2015; (c) the published timeline for IEEE P802.3bq showing approval in June 2016, and the published timeline for IEEE P802.3bp showing approval in August 2016; Mr. Law would suggest moving forward on the following assumption:
  - Amendment 2: IEEE Std 802.3by-201X
  - Amendment 3: IEEE Std 802.3bq-201X
  - Amendment 4: IEEE Std 802.3bp-201X
- Mr. Law believes that it is important that we establish the order so that on submission to RevCom we can show at least one recirculation where the balloters were given a draft where its editing instructions, and its position in the amendment order, were clear. In addition, it is also not possible to make substantive changes to correct amendment order without a recirculation, so this is another reason to establish the order now.

# Project order

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- Please note, however, that this does not mean that these projects have to be submitted to sequential RevCom meetings. Even if it were to happen that all three amendments were submitted to the same RevCom meeting, there would still need to be a defined order of which amendment modifies which. In the worst case that the order had to change, Mr. Law believes, from a process point of view, it could be done through a single recirculation of the impacted drafts.
- **UPDATE 25 February:** It is possible P802.3bp will move ahead of P802,3by and P802.3bq. If so, the 802.3 WG chair has a plan in place to cover that scenario.

# Timeline

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- **February 2016 – out-of-cycle interim**
  - Resolve D3.1 comments; create D3.2 for 2<sup>nd</sup> SB recirculation
- **March 2016**
  - Resolve comments to D3.2
  - Request conditional approval to RevCom
- **April 2016**
  - ½ day cancellable interim with teleconference support on 14 April
- **May 2016**
  - Possible RevCom, possible 1/2 day in Whistler
- **June 2016**
  - Possible RevCom, IEEE SASB

# Motion

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The IEEE P802.3bp 1000BASE-T1 Task Force hold a cancellable 1/2-day out-of-cycle interim with teleconference support April 14, 2016 at Marvell Semiconductor in Santa Clara, CA

M:

S:

Y:        N:        A:

Procedural (50% required)

PASSED by voice vote at XX:XXAM

# Motion

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The IEEE P802.3bp 1000BASE-T1 Task Force accept the comment resolutions (with editorial license to conform to RevCom guidelines) to D3.0 as detailed in [http://www.ieee802.org/3/bp/comments/8023bp\\_D31\\_approved.pdf](http://www.ieee802.org/3/bp/comments/8023bp_D31_approved.pdf) along with the results of motions accepted at the February 2016 Task Force meeting and charter the editor to produce D3.2 for sponsor ballot 2nd recirculation.

M:

S:

Y:        N:        A:

Technical (75% required)  
PASS/FAIL timestamp

# Future Meeting

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**IEEE 802 plenary  
Monday, March 14th through Thursday,  
March 17th, 2016  
P802.3bp will meet Wednesday**

**All IEEE 802.3 Task Force, Study  
Groups and Ad Hoc groups will meet during  
the IEEE 802 plenary week**

**The Venetian® Macao**

**Estrada da Baía de N. Senhora da  
Esperança, s/n, Taipa**

**Macao SAR, P.R. China**



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# Thank You!